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52

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/075,338	02/14/2002	Michael L. Reed	10186	8708

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EXAMINER

DANG, THANH HA T

ART UNIT	PAPER NUMBER
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2163

DATE MAILED: 05/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/075,338

Applicant(s)

REED ET AL.

Examiner

Thanh-Ha Dang

Art Unit

2163

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 February 2002.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-44 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,4-20,22-36 and 38-44 is/are rejected.
- 7) ☒ Claim(s) 3,21 and 37 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 14 February 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

1. Claims 1-2, 4-20, 22-36, and 38-44 are rejected in this Office Action.

Claims 3, 21, and 37 are objected in this Office Action.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-2, 4-20, 22-36, and 38-44 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No 6,839,707 issued to Lee et al. ("Lee").

As to Claim 1, Lee teaches "a method of loading data into a database system, comprising:

- receiving an insert request to insert data into a table in a database system, where the insert request includes one or more links, and each link indicates a server connection and a storage location for data corresponding to the link" (Figures 11, 17-18, column 11, lines 12-40);
- "creating a table entry in the database system" (Figure 3, column 5, lines 3-9);
- "opening the corresponding server connection for each received link" (column 8, lines 12-35);
- "requesting the data corresponding to each received link through the corresponding opened server connection" (Figures 9-13, column 8, lines 66-67, column 9, lines 1-67 and column 10, lines 1-43);
- "receiving the requested data for each received link through the corresponding server connection" (Figures 9-13, column 8, lines 66-67, column 9, lines 1-67 and column 10, lines 1-43); and
- "storing the received data in the table entry" (Figure 11, wherein block 594 has an equivalent representation to a table which stores the received data in the accessed table entry, column 9, lines 21-23).

As to Claim 2, Lee teaches:

- "selecting a data storage facility within the database system to store the data indicated by the insert request" (Figures 10-11, wherein block564 and block608 allow selecting a data storage facility within the database system to store the data indicated by the insert request, column 9, lines 24-64); and
- "passing the insert request to a database worker task within a processing module associated with the selected data storage facility" (Figures 11-12, wherein block608 and block640 and/or block642 execute the passed insert request to a database worker task within a processing module associated with the selected data storage facility, column 9, lines 44-67 and column 10, lines 1-22).

As to Claim 4, Lee teaches "the table entry includes a field of a user defined type and the received data is stored in a user defined type object representing the user defined type field" (column 10, lines 9-22).

As to Claim 5, Lee teaches "at least one link is a URL" (Figure 2, column 4, lines 16-32).

As to Claim 6, Lee teaches "at least one link is an ODBC DSN" (column 1, lines 57-59).

As to Claim 7, Lee teaches "the insert request includes a link string indicating the one or more links" (Figure 11, wherein block570 and block608 illustrate the insert request including a link string indicating the one or more links, column 9, lines 44-64).

As to Claim 8, Lee teaches "parsing the link string to derive each of the links" (Figure 11, wherein label586, label588 and the address-tab illustrate the link string to derive each of the links, column 9, lines 44-64).

As to Claim 9, Lee teaches "opening the corresponding server connection includes opening a connection across the Internet" (Figure 2, column 4, lines 16-32).

As to Claim 10, Lee teaches "storing at least some of the received data in a large object database related to the database system" (Figure 3, column 4, lines 66-67 and column 5, lines 1-23).

As to Claim 11, Lee teaches "passing the received links to a link constructor" (Figures 11-12, wherein block608 and block644 pass the received links to a link constructor, column 9, lines 55-64 and column 10, lines 10-22).

As to Claim 12, Lee teaches "the link constructor creates the table entry, opens appropriate server connections, requests and receives data through opened server connections, and stores the received data in the created table entry" (Figures 11-12, column 10, lines 37-43).

As to Claim 13, Lee teaches "a method of loading data into a database system, comprising:

- obtaining one or more links, where each link corresponds to a respective member of a field in an entry in a table in a database system and to data to be stored for the corresponding field, and each link indicates a server connection and a storage location for the corresponding data" (Figures 9-13, wherein block488 illustrates the links corresponding to a respective member of a field in an entry in a table in a database system, column 8, lines 12-23); and
- "providing a request to the database system to load data into the table, where the request includes the obtained links" (Figure 7, column 8, lines 36-48).

As to Claim 14, Lee teaches "the request is an insert request" (Figure 11, column 9, lines 44-61).

As to Claim 15, Lee teaches "the request is an update request" (Figure 11, column 9, lines 44-61).

As to Claim 16, Lee teaches "creating a link string including each of the obtained links, and where the request includes the link string" (Figure 11, wherein label586, label588 and the address-tab illustrate the link string to derive each of the links, column 9, lines 44-64 and column 10, lines 37-43).

As to Claim 17, Lee teaches "at least one link is a URL" (Figure 2, column 4, lines 16-32).

As to Claim 18, Lee teaches "at least one link is an ODBC DSN" (column 1, lines 57-59).

As to Claim 19, Lee teaches "a computer program, stored on a tangible storage medium, for use in loading data into a database system, the program comprising executable instructions that cause a computer to:

- receive an insert request to insert data into a table in a database system, where the insert request includes one or more links, and each link indicates a server connection and a storage location for data corresponding to the link" (Figures 11, 17-18, column 11, lines 12-40);
- "create a table entry in the database system" (Figure 3, column 5, lines 3-9);
- "open the corresponding server connection for each received link" (column 8, lines 12-35);
- "request the data corresponding to each received link through the corresponding opened server connection" (Figures 9-13, column 8, lines 66-67, column 9, lines 1-67 and column 10, lines 1-43);
- "receive the requested data for each received link through the corresponding server connection" (Figures 9-13, column 8, lines 66-67, column 9, lines 1-67 and column 10, lines 1-43); and
- "store the received data in the table entry" (Figure 11, wherein block 594 has an equivalent representation to a table which stores the received data in the accessed table entry, column 9, lines 21-23).

As to Claim 20, Lee teaches "executable instructions that cause a computer to:

- select a data storage facility within the database system to store the data indicated by the insert request" (Figures 10-11, wherein block564 and block608 allow selecting a data storage facility within the database system to store the data indicated by the insert request, column 9, lines 24-64); and
- "pass the insert request to a database worker task within a processing module associated with the selected data storage facility" (Figures 11-12, wherein block608 and block640 and/or block642 execute the passed insert request to a database worker task within a processing module associated with the selected data storage facility, column 9, lines 44-67 and column 10, lines 1-22).

As to Claim 22, Lee teaches "the table entry includes a field of a user defined type and the received data is stored in a user defined type object representing the user defined type field" (column 10, lines 9-22).

As to Claim 23, Lee teaches "at least one link is a URL" (Figure 2, column 4, lines 16-32).

As to Claim 24, Lee teaches "at least one link is an ODBC DSN" (column 1, lines 57-59).

As to Claim 25, Lee teaches "the insert request includes a link string indicating the one or more links" (Figure 11, wherein block570 and block608 illustrate the insert request including a link string indicating the one or more links, column 9, lines 44-64).

As to Claim 26, Lee teaches "executable instructions that cause a computer to parse the link string to derive each of the links" (Figure 11, wherein label586, label588 and the address-tab illustrate the link string to derive each of the links, column 9, lines 44-64).

As to Claim 27, Lee teaches "opening the corresponding server connection includes opening a connection across the Internet" (Figure 2, column 4, lines 16-32).

As to Claim 28, Lee teaches "executable instructions that cause a computer to store at least some of the received data in a large object database related to the database system" (Figure 3, column 4, lines 66-67 and column 5, lines 1-23).

As to Claim 29, Lee teaches "executable instructions that cause a computer to pass the received links to a link constructor" (Figures 11-12, wherein block608 and block644 pass the received links to a link constructor, column 9, lines 55-64 and column 10, lines 10-22).

As to Claim 30, Lee teaches "the link constructor creates the table entry, opens appropriate server connections, requests and receives data through opened server connections, and stores the received data in the created table entry" (Figures 11-12, column 10, lines 37-43).

As to Claim 31, Lee teaches "a database system, comprising:

- one or more data storage facilities for use in storing data composing records in tables of a database" (Figure 1, wherein block16 is a data storage facilities for use in storing data records in tables of a database which is block20, column 1, lines 63-67 and column 2, lines 1-15);
- "one or more processing modules configured to manage the data stored in the data-storage facilities" (Figure 4, wherein block130, block136, block140, block146 represent the processing modules configured to manage the data stored in the data-storage facilities, column 6, lines 4-35, and column 7, lines 3-34); and
- "a database management component configured to load data into the data storage facilities using one or more links received in a request from a client system, where each link indicates a server connection and a storage location for data corresponding to the link" (Figure 6-13 illustrates a database management component which load data using one or more links received in a request from a client system via a server connection and a storage location corresponding to the link, column 8, lines 65-67, column 9, lines 1-67 and column 10, lines 1-43).

As to Claim 32, Lee teaches "the request is an insert request" (Figure 11, column 9, lines 44-61).

As to Claim 33, Lee teaches "the request is an update request" (Figure 11, column 9, lines 44-61).

As to Claim 34, Lee teaches "the one or more data storage facilities store one or more objects of a user defined type for storing data loaded using links received in client requests" (Figures 10-13, column 10, lines 10-22).

As to Claim 35, Lee teaches "at least one processing module includes executable instructions providing a database worker task configured to:

- create a table entry in a data storage facility corresponding to the processing module including the database worker task" (Figure 3, column 5, lines 3-9);
- "open the corresponding server connection for each received link" (column 8, lines 12-35);
- "request the data corresponding to each received link through the corresponding opened server connection" (Figures 9-13, column 8, lines 66-67, column 9, lines 1-67 and column 10, lines 1-43);
- "receive the requested data for each received link through the corresponding server connection" (Figures 9-13, column 8, lines 66-67, column 9, lines 1-67 and column 10, lines 1-43); and

- “store the received data in the table entry” (Figure 11, wherein block594 has an equivalent representation to a table which stores the received data in the accessed table entry, column 9, lines 21-23).

As to Claim 36, Lee teaches “the database management component is further configured to:

- select a data storage facility within the database system to store the data indicated by the client request” (Figures 10-11, wherein block564 and block608 allow selecting a data storage facility within the database system to store the data indicated by the client request, column 9, lines 24-64); and
- “pass the client request to the database worker task within a processing module associated with the selected data storage facility” (Figures 11-12, wherein block608 and block640 and/or block642 execute the passed insert request to a database worker task within a processing module associated with the selected data storage facility, column 9, lines 44-67 and column 10, lines 1-22).

As to Claim 38, Lee teaches “at least one link is a URL” (Figure 2, column 4, lines 16-32).

As to Claim 39, Lee teaches “at least one link is an ODBC DSN” (column 1, lines 57-59).

As to Claim 40, Lee teaches "at least one link indicates a server connection accessible to the database management component through the Internet" (Figure 2, column 4, lines 16-32).

As to Claim 41, Lee teaches "a large object database connected to the database management component" (Figure 3, column 4, lines 66-67 and column 5, lines 1-23).

As to Claim 42, Lee teaches "the database management component is further configured to store the received links and provide the stored links upon request" (Figure 14, column 10, lines 44-54 and column 11, lines 1-11).

As to Claim 43, Lee teaches "a method of loading data into a database system, comprising:

- receiving an update request to insert data into a table in a database system, where the insert request includes one or more links, and each link indicates a server connection and a storage location for data corresponding to the link" (Figures 11-12, wherein block598 and block646 execute the received update request to insert data into a table in a database system, column 9, lines 44-67 and column 10, lines 1-22);
- "accessing an existing table entry in the database system" (Figure 10, wherein block564 allows the user to access an existing entry in the database system, column 9, lines 24-43);
- "opening the corresponding server connection for each received link" (column 8, lines 12-35);

- "requesting the data corresponding to each received link through the corresponding opened server connection" (Figures 9-13, column 8, lines 66-67, column 9, lines 1-67 and column 10, lines 1-43);
- "receiving the requested data for each received link through the corresponding server connection" (Figures 9-13, column 8, lines 66-67, column 9, lines 1-67 and column 10, lines 1-43); and
- "storing the received data in the accessed table entry" (Figure 11, wherein block594 has an equivalent representation to a table which stores the received data in the accessed table entry, column 9, lines 21-23).

As to Claim 44, Lee teaches:

- "selecting a data storage facility within the database system to store the data indicated by the update request" (Figures 10-11, wherein block564 and block608 allow selecting a data storage facility within the database system to store the data indicated by the update request, column 9, lines 24-64); and
- "passing the update request to a database worker task within a processing module associated with the selected data storage facility" (Figures 11-12, wherein block598 and block646 execute the received update request to insert data into a table in a database system, column 9, lines 44-67 and column 10, lines 1-22).

Allowable Subject Matter

3. Claims 3, 21 and 37 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior art of record does not teach or fairly suggest:

- At least two insert requests are processed in parallel as recited in Claim 3.
- At least two insert requests are processed in parallel as recited in Claim 21.
- The database management component is further configured to process at least two client requests including link strings in parallel as recited in Claim 37.


Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh-Ha Dang whose telephone number is 571-272-4033. The examiner can normally be reached on Monday-Friday from 9:00 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Safet Metjahic can be reached on 571-272-4023. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thanh-Ha Dang
Examiner
Art Unit 2163



ALFORD KINDRED
PRIMARY EXAMINER